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Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

04-AMCP-0380

JUL 27 2004

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Hanford Project Office
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Addressees:

HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) CHANGE REQUEST M-24-04-01, GROUNDWATER PROTECTION, AND MONITORING AND REMEDIATION WELL INSTALLATION PRIORITY LIST FOR CALENDAR YEAR (CY) 2004 THROUGH CY 2007

The enclosed change control form formalizes the agreements reached by the U.S. Department of Energy, Richland Operations Office (RL), the State of Washington Department of Ecology (Ecology), and the U.S. Environmental Protection Agency, hereinafter referred to as the Parties, for CY 2004 through CY 2007. The Parties developed an integrated well drilling list that coordinates and prioritizes groundwater monitoring across the requirements of the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation and Liability Act and the Atomic Energy Act. Attachments 1 and 2 to the Tri-Party Agreement Change Request identify the wells to be installed, the priority of the well installation, the type of well to be installed, and the year it will be installed. For those wells already installed, the completion date is included.

The Parties continue to focus the groundwater detection well network within the single-shell tank waste management areas and/or the wells required to upgrade existing pump-and-treat systems as the highest priority. The Parties have worked diligently to resolve any issues surrounding the installation of the wells and are confident that the integrated approach will be satisfactory to everyone.

Addressees
04-AMCP-0380

-2-

JUL 27 2004


In addition, we are pleased to notify you that RL initiated discussions with EPA and Ecology on May 20, 2004, well ahead of the June 30, 2004, date for Tri-Party Agreement Interim Milestone M-024-57B, "DOE Initiates Discussions Annually to Reaffirm Selected Wells." It is DOE's intent to conclude these discussions prior to the August 1, 2004, date stipulated in the Tri-Party Agreement Interim Milestone M-024-57C, "The Parties Conclude Negotiations by August 1 Each Year." The intent is to conclude these discussions as soon as possible so that the drilling schedule for CY 2004 and CY 2005 can be finalized and implemented in accordance with Tri-Party Agreement Interim Milestone M-024-57D. Once the Parties have reached agreement on the well location/priority, Tri-Party Agreement Interim Milestone M-024-57C will be completed.

During the CY 2003 drilling campaign, a total of 16 wells were installed and we anticipate that by December 31, 2004, there will be more than a cumulative total of 30 groundwater wells installed.

The Parties remain vigilant in Hanford cleanup efforts to ensure that this work scope is completed in an effective, efficient, and timely manner with no impact on human health or the environment. We appreciate your continued support and cooperation with this work scope.

If you have questions, please contact me, or your staff may contact Matt McCormick, Assistant Manager for the Central Plateau, on (509) 373-9971, or Joel Hebdon, Director, Office of Environmental Services, on (509) 376-6657.

Sincerely,


For Keith A. Klein
Manager


AMCP:KMT

Enclosure

cc w/encl:

D. Bartus, EPA
L. D. Crass, FHI
L. J. Cusack, Ecology
D. Goswami, Ecology
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B. A. Williams, PNNL
~~Administrative Record (H6-08)~~

Change Number	Federal Facility Agreement and Consent Order		Date:	
M-24-04-01	Change Control Form		July 14, 2004	
Do not use blue ink. Type or print using black ink.				
Originator: Mike Thompson/Dale Jackson		Phone: 373-0750/376-8086		
Class of Change:				
<input type="checkbox"/> I - Signatories		<input checked="" type="checkbox"/> II - Executive Manager		<input type="checkbox"/> III - Project Manager
Change Title:				
Groundwater Protection, Monitoring and Remediation Well Installation Priority List for CY 2004 – CY 2007 and Modify Tri-Party Agreement Interim Milestone M-024-57				
<p>The M-024 milestone was one of the original Tri-Party Agreement milestones which defined the yearly drilling schedule for groundwater monitoring wells to obtain a compliant monitoring system as mandated by the Resource Conservation and Recovery Act (RCRA), the Washington State Hazardous Waste Management Act (HWMMA), and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Approximately 300 RCRA monitoring wells have been drilled at Hanford since 1985 for the primary purpose of detecting contaminant migration from RCRA TSD units. However, there continues to be a need for additional RCRA monitoring wells. Declining water levels and changing groundwater flow directions in the 200 Area Plateau have left wells dry and require the replacement of existing detection RCRA monitoring wells to comply with regulatory requirements for compliant number and location of wells. In addition, most of the SST RCRA WMA's have gone into RCRA groundwater quality assessment under 40 CFR 265 Subpart F, requiring additional assessment wells.</p> <p>Between 1989 and the mid-1990's, groundwater characterization activities occurred to determine the nature and extent of existing groundwater contamination to support the CERCLA and RCRA Past Practice Tri-Party Agreement commitments. Interim response actions were initiated for carbon tetrachloride, uranium and technetium-99 in 200-West Area; remedial actions were initiated in groundwater for various fission products in 200 East Area and subsequently terminated; and, remedial actions were initiated for chromium and strontium-90 in the 100 areas along the Columbia River. The CERCLA Five Year Record of Decision Review, performed in Calendar Year (CY) 2000, identified the need for more wells to track the existing groundwater contamination plumes and the need to upgrade the existing groundwater pump-and-treat systems, requiring more wells. In addition, wells have been installed to support the In Situ Redox Manipulation remediation of hexavalent chromium in the 100-D Area. Furthermore, additional characterization is required to characterize the vertical distribution of CCl4 in 200 West Area to design replacement(s) for interim pump-and-treat actions, and that may require additional wells.</p> <p>This Tri-Party Agreement Change Request formalizes the Parties efforts to have a better integrated, more effective, and more cost efficient way for well installation to meet cleanup and regulatory objectives for Hanford groundwater protection activities. As agreed to during the CY 2003 groundwater negotiations, a data quality objective process was used by the project managers to reaffirm the wells to be drilled and recommend any new wells to maintain a four-year commitment (execution year and three out years) for well installations. The Data Quality Objective (DQO) was initiated May 20, 2004, and concluded June 28, 2004, and is included as an attachment to this Tri-Party Agreement change package.</p>				
Description/Justification Continued on Pages 2 – 3				
Impact of Change:				
RCRA, CERCLA and AEA requirements incorporated into an overall strategy for groundwater protection, monitoring and remediation. This change package modifies the priority list for well installation for Fiscal Year (FY) 2004 through FY 2007 and Tri-Party Agreement Interim Milestone M-024-57.				
Affected Documents:				
The Tri-Party Agreement as amended and Hanford Site internal planning, management, and budget documents (e.g., USDOE and USDOE contractor Baseline Change Control documents; Multi-Year Work Plan; Sitewide Systems Engineering Control Documents; Project Management Plans, and, if appropriate, LDR Report requirements).				
Approvals:				
 J. B. Hebdon, RL IAMIT Representative	7/23/04 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
_____ J. E. Rasmussen, ORP IAMIT Representative	_____ Date	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
_____ N. Ceto, EPA IAMIT Representative	_____ Date	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
_____ M. A. Wilson, Ecology IAMIT Representative	_____ Date	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	

Description/Justification of Change (Continued):

Modifications/deletions to existing Tri-Party Agreement milestones are denoted using ~~redline/strikeout~~; new milestones/text are denoted with ~~shading~~. Tri-Party Agreement Interim Milestone M-024-57 will be modified annually.

<p>M-024-57 (Ecology Lead)</p>	<p>Install a minimum of 60 wells (See attached well list). DOE will initiate discussions annually in June using the data quality objective process (DQO) to reaffirm the selected wells and recommend any new well installations needed to maintain a three-year rolling prioritized drilling schedule consistent with site-wide clean-up priorities. The Parties will conclude negotiations and revise M-024-57 by August 1 of each year to maintain a four year commitment for well installations. The list for CY 2004 is included as Attachment 1 to this Tri-Party Agreement change package. Attachment 2 to this Tri-Party Agreement change package contains the list of wells to be installed CY 2004 – CY 2007.</p> <p>Since all wells are drilled in CERCLA or RCRA Past Practice operable units, the Parties agreed that the most effective and efficient method of managing wastes from all Hanford well development drilling would be to dispose of the waste in the Hanford Environmental Restoration Disposal Facility (ERDF). This workscope would be conducted under the M-024 series milestones and will need to meet ERDF disposal requirements through the timely submittal of CERCLA sampling and analysis plans (or revisions to existing CERCLA sampling and analysis plans) for the appropriate operable unit, approved by the assigned lead regulatory agency.</p> <p>The integration and coordination of well drilling under the revised Tri-Party Agreement M-024 milestone series will assure CERCLA needs are incorporated into the overall drilling campaign. In addition, the Parties reaffirmed their commitment to Section 5.5 of the Tri-Party Agreement Action Plan, the need to coordinate the application of regulatory requirements, and that past-practice authority may provide the most efficient means for addressing mixed-waste groundwater contamination plumes originating from a combination of TSD and past-practice units. In order to ensure that TSD units within the operable units are brought into compliance with RCRA and State hazardous waste regulations, the State of Washington Department of Ecology (Ecology) intends, subject to part four of the Tri-Party Agreement, that all response or corrective actions, excluding situations where there is an imminent threat to the public health or environment as described in Section 7.2.3, will be conducted in a manner which ensures compliance with the technical requirements of the HWMA Chapter 70.105 RCW and implementing regulations. Notwithstanding this operating assumption, Ecology reserves the right to exercise its authority under the HWMA and the Hanford Sitewide RCRA Permit, Condition II.Y to require groundwater response actions consistent with WAC 173-303-645 and/or 173-303-646. The management of purgewater and investigation derived wastes from existing wells and wells under the revised M-024 Tri-Party Agreement milestones will be managed as CERCLA wastes in accordance with a CERCLA decision document or sampling and analysis plan, to be disposed at ERDF as long as the wastes meet ERDF</p>	<p>Due Dates are as indicated in the descriptive text of this milestone</p>
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<p>M-024-57 (Continued)</p>	<p>disposal acceptance criteria. DOE shall install the following minimum number of wells in accordance with the priorities identified in the yearly DQO</p> <ul style="list-style-type: none">• a minimum of 15 wells by 12/31/2003• a cumulative of 30 wells by 12/31/2004• a cumulative of 45 wells by 12/31/2005; and,• a cumulative of 60 wells by 12/31/2006.• a cumulative of 75 wells by 12/31/2007 <p>Modification to the priority list will be approved at the Project Manager's level.</p> <p>(This milestone will continue on a yearly basis until such time that the Parties agree that sufficient RCRA and CERCLA groundwater wells are in place and operating to comply with RCRA and CERCLA requirements for groundwater monitoring, groundwater protection, and groundwater remediation.)</p> <p>Each element of this milestone is considered a distinct work requirement independently subject to the enforcement provisions of the agreement.</p>	
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Groundwater Protection, Monitoring, and Remediation Well Installation CY 2004
(M-024-57D)

Well #	OU/Other	Comments	Temporary Name	Program/Facility Name/ Locations	Justification/Purpose	Deep Bore-hole
C4187	HR-3	199-D5-34	HR-3	CERCLA/100HR-3 OU/River	Chromium monitoring well	
C4184	ZP-1 #4	299-W15-47	ZP-2	CERCLA/ZP-1 OU	ZP-1 OU Pump and Treat requires replacement and extraction well #4	
C4300	UP-1 "K"	299-W19-148	UP-1	CERCLA/200-UP-1 OU/ south of U-17 Crib (K)	Install Well "K" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	
C4257	RCRA ORP	299-E24-33	A-3	RCRA ORP/WMA A-AX SST west of WMA perimeter	Site in detection. Upgradient detection/complete (POC) network	
C4261	RCRA ORP	299-E33-49	B-1	RCRA ORP/WMA B-BX-BY SST/ south side of 241-BX perimeter	Site in assessment. Contaminant detection/complete downgradient POC coverage.	
C4260	RCRA ORP	299-E33-48	B-2	RCRA ORP/WMA B-BX-BY SST/ south side of 241-B perimeter	Site in assessment. Contaminant detection/complete downgradient POC coverage.	
C4259	RCRA ORP	299-E33-47	B-3	RCRA ORP/WMA B-BX-BY SST/east side of 241-B perimeter	Site in assessment. Contaminant detection/complete downgradient POC coverage.	
C4258	RCRA ORP	299-W19-47	U-1	RCRA ORP/WMA U SST/northeast side of WMA perimeter	Site in assessment. Contaminant detection/complete downgradient POC coverage.	
C4298	UP-1 "R"	699-30-66	UP-2	CERCLA /200-UP-1 OU	Install Well "R" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X
C4299	UP-1 "P"	699-36-70B	UP-3	CERCLA /200-UP-1 OU	Install Well "P" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X
C4301	ZP-1 "C"	299-W15-49	ZP-3	CERCLA/200-ZP-1 OU	Install Well "C" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X
C4235	UP-1 "S"	699-40-65	UP-4	CERCLA /200-UP-1 OU	Install Well "S" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X
C4238	ZP-1 "G"	299-W13-1	ZP-4	CERCLA/200-ZP-1 OU	Install Well "G" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X
C4236	UP-1 "O"	699-38-70B	UP-5	CERCLA /200-UP-1 OU	Install Well "O" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X
C4256	UP-1 "N"	699-38-70C	UP-6	CERCLA /200-UP-1 OU	Install Well "N" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X

NOTES:

Deep wells are to be drilled a minimum of 120 ft below the water table, and possibly deeper, to the base of the unconfined aquifer (e.g., this is the Ringold Lower Mud Unit in 200 West Area), as specified in project specific RCRA sampling and analysis plans and CERCLA characterization plans

M24 Priority List

TPA Priority	Well #	OU/Other	Comments	Temporary Name	Program/Facility Name/ Locations	Justification/Purpose	Deep Bore-hole ²	TPA CY03 List	TPA Proposed CY04 list	TPA Proposed CY05	TPA Proposed CY06	TPA Proposed CY07
1	C4124	RCRA ORP	299-E27-22	C-1	RCRA ORP/WMA C SST/north end of WMA perimeter	Site in detection. Upgradient detection/ complete point of compliance (POC) network.		X				
2	C4125	RCRA ORP	299-E27-4	C-2	RCRA ORP/WMA C SST/southwest of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.		X				
3	C4127	RCRA ORP	299-E27-21	C-3	RCRA ORP/WMA C SST/south of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.		X				
4	C4190	RCRA ORP	299-E27-23	C-4	RCRA ORP/WMA C SST/south of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.		X				
5	C4122	RCRA ORP	299-E25-93	A-1	RCRA ORP/WMA A-AX SST/southeast of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.		X				
6	C4123	RCRA ORP	299-E24-22	A-2	RCRA ORP/WMA A-AX SST/northwest of WMA perimeter	Site in detection. Upgradient detection/ complete (POC) network.		X				
7	B8828	RCRA RL	299-W26-14	S10-1	RCRA RL/216-S-10 Ditch/ mid-section of ditch on south side of WMA perimeter	Site in Detection. Opportunity to integrate with CERCLA borehole drilling in FY 2003.		X				
8	C4237	ZP-1	299-W17-1	ZP-31	CERCLA/200-ZP-1	200-ZP-1 OU upgradient monitoring well		X				
9	C4119	ZP-1 ext well 1	299-W15-45	ZP-31	CERCLA/ZP-1 OU	ZP-1 OU Pump and Treat requires replacement for extraction well #1		X				
10	C4073	FF-5	699-S6-E4L	FF-1	CERCLA/300-FF-5 OU/618-10 Burial Ground	Burial Ground monitoring well		X				
11	C4072	FF-5	699S6-E4K	FF-2	CERCLA/300-FF-5 OU/618-10 Burial Ground	Burial Ground monitoring well		X				
12	C4117	KR-4	199-K-129	KR-1	CERCLA/100-KR-4 OU/River	Chromium extraction/performance monitoring		X				
13	C4120	KR-4	199-K-130	KR-2	CERCLA/100-KR-4 OU/River	Chromium monitoring well		X				
14	C4185	HR-3	199-D5-32	HR-1	CERCLA/100-HR-3 OU/River	Chromium monitoring well		X				
15	C4186	HR-3	199-D5-33	HR-2	CERCLA/100HR-3 OU/River	Chromium monitoring well		X				
16	C4187	HR-3	199-D5-34	HR-3	CERCLA/100HR-3 OU/River	Chromium monitoring well			X			
17	C4184	ZP-1 #4	299-W15-47	ZP-2	CERCLA/ZP-1 OU	ZP-1 OU Pump and Treat requires replacement and extraction well #4			X			
18	C4300	UP-1 "K"	299-W19-148	UP-1	CERCLA/200-UP-1 OU/ south of U-17 Crib (K)	Install Well "K" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X		X			
19	C3426	Z9 DNAPL	299-W15-46	ZP-1	CERCLA/200-ZP-1 OU/Z-9 Crib	DNAPL investigation	X			X		
20	-	RL - RCRA		S-1	RCRA RL/WMA S-SX/southeast corner, south of 299-W22-46	Site in Assessment. Delineate existing plume(s)/complete assessment network	X				X	
21	-	RL - RCRA		T-1	RCRA RL/WMA T/deep twin to 299-W11-39, northeast corner of WMA	Site in Assessment. Delineate existing plume(s)/deep characterization	X				X	
22	-	RL - RCRA		TX-1	RCRA RL/WMA TX-TY/deep twin to 299-W14-13, east of WMA perimeter	Site in Assessment. Delineate existing plume(s)/deep characterization	X				X	
23	C4257	RCRA ORP	299-E24-33	A-3	RCRA ORP/WMA A-AX SST northwest of WMA perimeter	Site in detection. Upgradient detection/ complete (POC) network			X			

M24 Priority List

TPA Priority	Well #	OU/Other	Comments	Temporary Name	Program/Facility Name/ Locations	Justification/Purpose	Deep Bore-hole ²	TPA CY03 List	TPA Proposed CY04 list	TPA Proposed CY05	TPA Proposed CY06	TPA Proposed CY07
24	C4261	RCRA ORP	299-E33-49	B-1	RCRA ORP/WMA B-BX-BY SST/ south side of 241-BX perimeter	Site in assessment. Contaminant detection/ complete downgradient POC coverage.			X			
25	C4260	RCRA ORP	299-E33-48	B-2	RCRA ORP/WMA B-BX-BY SST/ south side of 241-B perimeter	Site in assessment. Contaminant detection/ complete downgradient POC coverage.			X			
26	C4259	RCRA ORP	299-E33-47	B-3	RCRA ORP/WMA B-BX-BY SST/east side of 241-B perimeter	Site in assessment. Contaminant detection/ complete downgradient POC coverage.			X			
27	C4258	RCRA ORP	299-W19-47	U-1	RCRA ORP/WMA U SST/northeast side of WMA perimeter	Site in assessment. Contaminant detection/ complete downgradient POC coverage.			X			
28	-	RL - RCRA		A-4	RCRA RL/WMA A-AX SST	Site in detection. Contaminant detection/ complete downgradient POC coverage.				X		
29	C4298	UP-1 "R"	699-30-66	UP-2	CERCLA /200-UP-1 OU	Install Well "R" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X		X			
30	C4299	UP-1 "P"	699-36-70B	UP-3	CERCLA /200-UP-1 OU	Install Well "P" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X		X			
31	C4301	2P-1 "C"	299-W15-49	2P-3	CERCLA/200-2P-1 OU	Install Well "C" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X		X			
32	C4235	UP-1 "S"	699-40-65	UP-4	CERCLA /200-UP-1 OU	Install Well "S" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X		X			
33	C4238	2P-1 "G"	299-W13-1	2P-4	CERCLA/200-2P-1 OU	Install Well "G" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X		X			
34	C4236	UP-1 "O"	699-38-70B	UP-5	CERCLA /200-UP-1 OU	Install Well "O" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X		X			
35	C4256	UP-1 "N"	699-38-70C	UP-6	CERCLA /200-UP-1 OU	Install Well "N" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X		X			
36	C4302	2P-1 "E"	288-W15-50	2P-5	CERCLA/200-2P-1 OU	Install Well "E" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X			X		
37	C4303	2P-1 "D"	299-W18-16	2P-6	CERCLA/200-2P-1 OU	Install Well "D" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X			X		
38	-	FH #1 KR-4		KR-3	CERCLA/100-KR-4 OU/River	Chromium extraction/performance monitoring				X		
39	-	BHI KR-4		KR-4	CERCLA/100-KR-4 OU/River	BHI well				X		
40	-	IDF #1		IDF-1	RCRA ORP/IDF/200 East Area	New RCRA facility. POC detection monitoring required				X		
41	-	IDF #2		IDF-2	RCRA ORP/IDF/200 East Area	New RCRA facility. POC detection monitoring required				X		
42	-	UP-1 "Q"		UP-7	CERCLA /200-UP-1 OU	Install Well "Q" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.	X			X		
43	-	PO-1		PO-1	CERCLA/ 200-PO-1 OU/ BC-Cribs monitoring wells	Defined in 200-PO-1 SAP (DOE/RL-2003-04)	X			X		
44	-	PO-1		PO-2	CERCLA/ 200-PO-1 OU/ BC-Cribs monitoring wells	Defined in 200-PO-1 SAP (DOE/RL-2003-04)				X		
45	-	LLBG		LLBG-1	RCRA/LLWMA 4, perimeter well approximately 300' south of well 299-W15-16	RCRA IS/FS detection at point of compliance				X		
46		LLBG		LLBG-2	RCRA/LLWMA 4, perimeter well approximately 450' from NE corner and north of well 299-W15-16	RCRA IS/FS detection at point of compliance				X		

M24 Priority List

TPA Priority	Well #	OU/Other	Comments	Temporary Name	Program/Facility Name/ Locations	Justification/Purpose	Deep Bore- hole ²	TPA CY03 List	TPA Proposed CY04 list	TPA Proposed CY05	TPA Proposed CY06	TPA Proposed CY07
47		LLBG		LLBG-3	RCRA/LLWMA 4, Replacement or deepening of dry well 299-W15-18	RCRA IS/FS detection at point of compliance/ replacement well for dry well				X		
48		LLBG		LLBG-4	RCRA/LLWMA 4, perimeter well approximately 150' from NE corner and north of well 299-W15-16	RCRA IS/FS detection at point of compliance				X		
49		LLBG		LLBG-5	RCRA/LLWMA 3, perimeter well approximately 450' north of well 299-W7-10	RCRA IS/FS detection at point of compliance					X	
50		LLBG		LLBG-6	RCRA/LLWMA 4, replacement or deepening of dry well 299-W18-24	RCRA IS/FS detection at point of compliance/ replacement well for dry well					X	
51		LLBG		LLBG-7	RCRA/LLWMA 3, perimeter well approximately 300' north of well 299-W10-20	RCRA IS/FS detection at point of compliance					X	
52		LLBG		LLBG-8	RCRA/LLWMA 3, perimeter well near well 299-W10-19	RCRA IS/FS detection at point of compliance/ near a dry well					X	
53		LLBG		LLBG-9	RCRA/LLWMA 3, perimeter well approximately 300 ft north of well 299-W10-19	RCRA IS/FS detection at point of compliance					X	
54		BP-5	BW BP-5	BP-1	CERCLA/ BP-5 OU/Gable Gap	Defined in 200-BP-5 SAP (DOE/RL-2001-49)	X				X	
55				A-5	RCRA ORP/WMA A-AX SST/south-east of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.					X	
56		RCRA	BW T-2	T-2	RCRA RL/WMA T/East far-field, near T-17 Trench	Site in Assessment. Downgradient plume characterization per DQO HNF 12236					X	
57	-	UP/ZP well		ZP-# UP-#	CERCLA/200-ZP-1 or 200-UP-1/ location TBD	Well to be identified in DOE/RL-2002-17?					X	
58	-	UP/ZP well		ZP-# UP-#	CERCLA/200-ZP-1 or 200-UP-1/ location TBD	Well to be identified in DOE/RL-2002-17?					X	
59		UP/ZP well		ZP-# UP-#	CERCLA/200-ZP-1 or 200-UP-1/ location TBD	Well to be identified in DOE/RL-2002-17?					X	
60	-	1 UP/ZP wells		UP-#/ZP-#	CERCLA /200-UP/ZP OU						X	
61		LLBG		LLBG-10	RCRA/LLWMA 3, replacement or deepening of dry well 299-W7-10	RCRA IS/FS detection at point of compliance/ replacement well for dry well						X
62		LLBG		LLBG-11	RCRA/LLWMA 4, perimeter well approximately 400' south of well 299-W15-18	RCRA IS/FS detection at point of compliance						X
63		LLBG		LLBG-12	RCRA/LLWMA 4, perimeter well approximately 300' north of well 299-W18-29 (an alternate location is approximately 700' west)	RCRA IS/FS detection at point of compliance						X
64		LLBG		LLBG-13	RCRA/LLWMA 3, perimeter well approximately 300' south of well 299-W7-10	RCRA IS/FS detection at point of compliance						X

M24 Priority List

TPA Priority	Well #	OU/Other	Comments	Temporary Name	Program/Facility Name/ Locations	Justification/Purpose	Deep Bore-hole ²	TPA CY03 List	TPA Proposed CY04 list	TPA Proposed CY05	TPA Proposed CY06	TPA Proposed CY07
65	-	HR-3 D monitoring/extraction well		HR-4	CERCLA/100-HR-3 OU/River	Chromium extraction well/performance monitoring						X
66	-	HR-3 D monitoring well		HR-5	CERCLA/100-HR-3 OU/River	Chromium monitoring well						X
67	-	HR-3 D monitoring well		HR-6	CERCLA/100-HR-3 OU/River	Chromium monitoring well						X
68		KR-4		KR-3	CERCLA/100-KR-4 OU/River	TBD						X
69		ZP-1 CCL4		ZP-#	CERCLA/200-ZP-1 / location TBD	Carbon Tetrachloride investigation/characterization placeholder						X
70		ZP-1 CCL4		ZP-#	CERCLA/200-ZP-1 / location TBD	Carbon Tetrachloride investigation/characterization placeholder						X
71		ZP-1 CCL4		ZP-#	CERCLA/200-ZP-1 / location TBD	Carbon Tetrachloride investigation/characterization placeholder						X
72		ZP-1 CCL4		ZP-#	CERCLA/200-ZP-1 / location TBD	Carbon Tetrachloride investigation/characterization placeholder						X
73		ZP-1 CCL4		ZP-#	CERCLA/200-ZP-1 / location TBD	Carbon Tetrachloride investigation/characterization placeholder						X
74		BP-1 U		BP-2	CERCLA/ BP-5 OU	To be defined in 200-BP-5 SAP (DOE/RL-2001-49)	X					X
75		Placeholder		TBD	TBD	TBD						X
TBD ¹		Placeholder	Potential in CY06/Need to Identify Funding	TBD	LLBG	Monitor trenches if there's an impact to groundwater					X ¹	
TBD ¹		Placeholder	Potential in CY06/Need to Identify Funding	TBD	LLBG	Monitor trenches if there's an impact to groundwater					X ¹	
TBD		LLBG		LLBG-14	RCRA/LLWMA 4, perimeter well approximately 400' south of well 299-W18-24	RCRA IS/FS detection at point of compliance						
TBD		LLBG		LLBG-15	RCRA/LLWMA 4, Replacement or deepening of dry well 299-W18-29 (an alternate location is approximately 700' west)	RCRA IS/FS detection at point of compliance/ replacement well for dry well						
TBD		LLBG		LLBG-16	RCRA/LLWMA 3, perimeter well near well 299-W7-5. Groundwater flow will be closely evaluated before final decision on this location.	RCRA IS/FS detection at point of compliance/ near a well predicted to be dry in 2005						

M24 Priority List

TPA Priority	Well #	OU/Other	Comments	Temporary Name	Program/Facility Name/ Locations	Justification/Purpose	Deep Bore-hole ²	TPA CY03 List	TPA Proposed CY04 list	TPA Proposed CY05	TPA Proposed CY06	TPA Proposed CY07
TBD		LLBG		LLBG-17	RCRA/LLWMA 3, perimeter well near well 299-W7-7. Groundwater flow will be closely evaluated before final decision on this location.	RCRA IS/FS detection at point of compliance/ near a dry well						
	C4471	NR-2 N-Barrier	199-N-119									
	C4472	NR-2 N-Barrier	199-N-120									
	C4473	NR-2 N-Barrier	199-N-121									
	C4562	PNNL/ORP Seismic					X					
	-	NR-2 N-Barrier										

¹ The parties have agreed to include a "placeholder" for up to two wells in CY 2006 to monitor CCI-4 and other RCRA constituents such as TCE from LLBG trenches if M-91 characterization activities and vadose zone characterization activities from 200-PW-01 establish that RCRA contaminants from LLBG TSDs have impacted groundwater or such impacts are demonstrated to be imminent

² Deep wells are to be drilled a minimum of 120 ft below the water table, and possibly deeper, to the base of the unconfined aquifer (e.g., this is the Ringold Lower Mud Unit in 200 West Area), as specified in pr ZP-1 well "C" is proposed to be drilled to the top of the Ringold lower mud unit.
 ZP-1 well "G" (299-W13-1) was installed in 1994, drilled just below the Ringold lower mud unit.
 ZP-1 well "D" and "E" are both proposed to be drilled 120 feet below the water table.

completed